

ABSTRACT OF THE DISCLOSURE

Phosphor compositions having the formula $(\text{Ba}, \text{Sr}, \text{Ca})\text{SiO}_4:\text{Eu}$ and light emitting devices including a semiconductor light source and the above phosphor. Also disclosed are blends of $(\text{Ba}, \text{Sr}, \text{Ca})\text{SiO}_4:\text{Eu}$ and one or more additional phosphors and light emitting devices incorporating the same. Preferred blends include $(\text{Sr}, \text{Ba}, \text{Ca})_2\text{SiO}_4:\text{Eu}$ and at least one of $(\text{Sr}, \text{Mg}, \text{Ca}, \text{Ba}, \text{Zn})_2\text{P}_2\text{O}_7:\text{Eu}, \text{Mn}$; $(\text{Ca}, \text{Sr}, \text{Ba}, \text{Mg})_5(\text{PO}_4)_3(\text{Cl}, \text{F}, \text{OH}):\text{Eu}, \text{Mn}$; $(\text{Sr}, \text{Ba}, \text{Ca})\text{MgAl}_{10}\text{O}_{17}:\text{Eu}, \text{Mn}$; and $\text{Mg}_4\text{FGeO}_6:\text{Mn}^{4+}$; and one or more garnet phosphors having the general formula $(\text{Y}, \text{Gd}, \text{La}, \text{Lu}, \text{T}, \text{Pr}, \text{Sm})_3(\text{Al}, \text{Ga}, \text{In})_5\text{O}_{12}:\text{Ce}$.

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